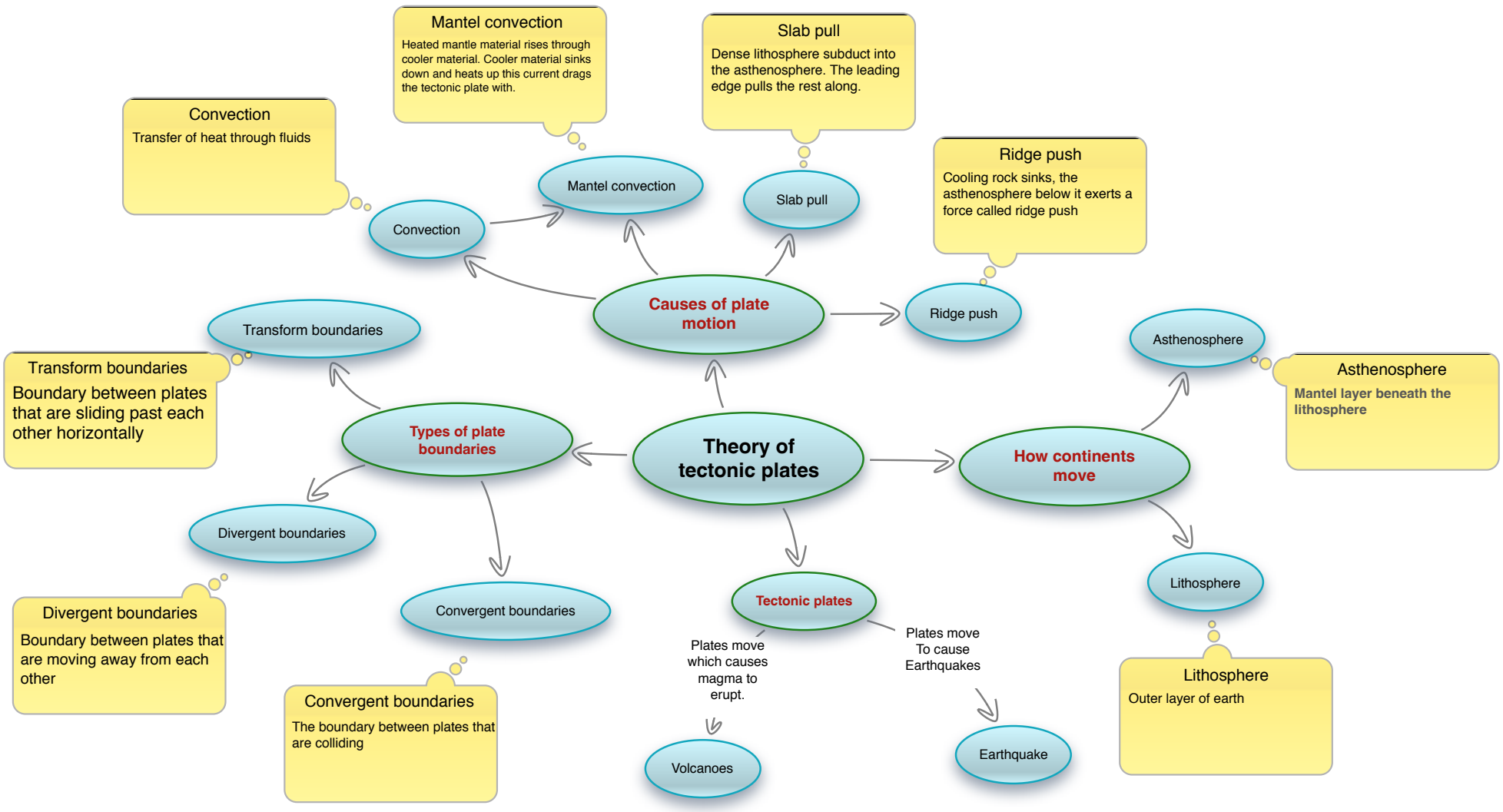
Theory of tectonic plates
Causes of plate motion
Convection
Transfer of heat through fluids
Mantel convection
Heated mantle material rises through cooler material. Cooler material sinks down and heats up this current drags the tectonic plate with.
Slab pull
Dense lithosphere subduct into the asthenosphere. The leading edge pulls the rest along.
Ridge push
Cooling rock sinks, the asthenosphere below it exerts a force called ridge push
Convection
Mantel convection
Slab pull
Ridge push
Transform boundaries
Transform boundaries
Boundary between plates that are sliding past each other horizontally
Types of plate boundaries
How continents move
Asthenosphere
Asthenosphere
Mantel layer beneath the lithosphere
Divergent boundaries
Divergent boundaries
Boundary between plates that are moving away from each other
Convergent boundaries
Convergent boundaries
The boundary between plates that are colliding
Tectonic plates
Plates move which causes magma to erupt.
Plates move To cause Earthquakes
Volcanoes
Earthquake
Lithosphere
Lithosphere
Outer layer of earth